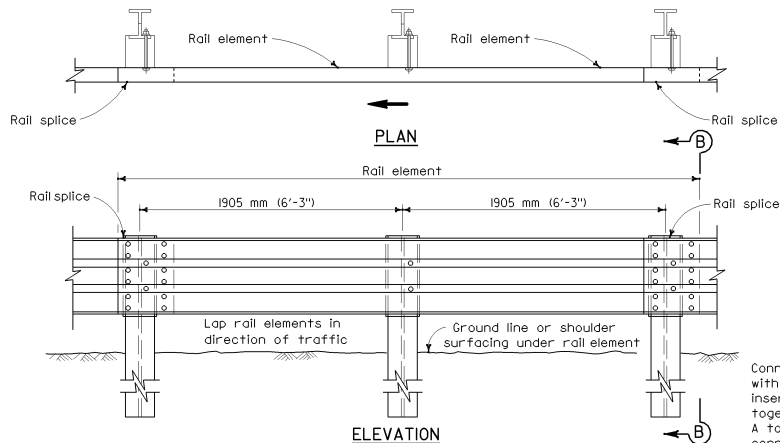


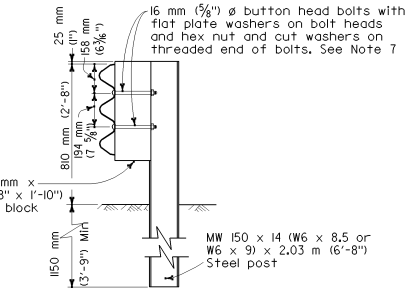
DOUBLE THRIE BEAM BARRIER
(Steel post and wood block)
See Note 1



SINGLE THRIE BEAM BARRIER
(Steel post and wood block)
See Note 1

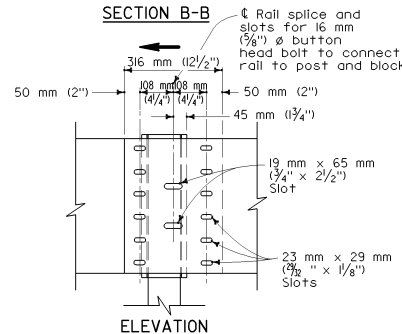
16 mm (5/8") ϕ Button head bolts with hex nuts and cut washers on threaded end of bolts. See Note 7

150 mm x 200 mm x 560 mm (6" x 8" x 1'-10") Notched wood block



SECTION A-A

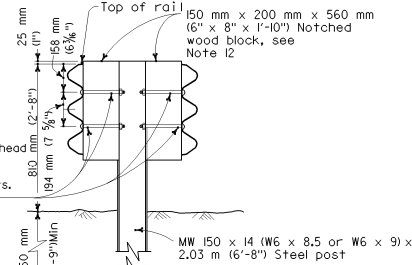
SECTION B-B



ELEVATION

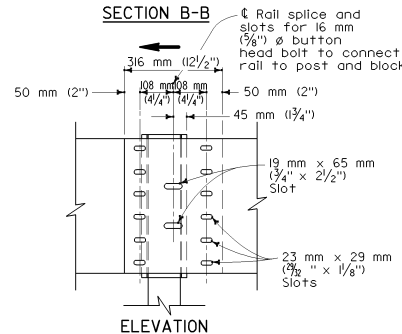
RAIL ELEMENT SPICE DETAIL

Connect the overlapped ends of the thrie beam rail elements with 16 mm (5/8") ϕ x 35 mm (1 1/8") button head oval shoulder bolts inserted into the 23 mm x 29 mm (7/8" x 1 1/8") slots and bolted together with 16 mm (5/8") ϕ x 35 mm (1 1/8") recessed hex nuts. A total of 12 bolts and nuts are to be used at each rail splice connection. The ends of the rail elements are to be overlapped in the direction of traffic (see details). Where a terminal section is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used. Where a return section is to be attached to the end of rail elements, a total of 8 of the above described splice bolts and nuts are to be used.



SECTION A-A

SECTION B-B

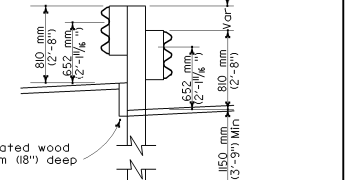


ELEVATION

RAIL ELEMENT SPICE DETAIL

Connect the overlapped ends of the thrie beam rail elements with 16 mm (5/8") ϕ x 35 mm (1 1/8") button head oval shoulder bolts inserted into the 23 mm x 29 mm (7/8" x 1 1/8") slots and bolted together with 16 mm (5/8") ϕ x 35 mm (1 1/8") recessed hex nuts. A total of 12 bolts and nuts are to be used at each rail splice connection. The ends of the rail elements are to be overlapped in the direction of traffic (see details). Where a terminal section is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used. Where a return section is to be attached to the end of rail elements, a total of 8 of the above described splice bolts and nuts are to be used.

DIST	COUNTY	ROUTE	KILOMETER POST	SHEET	TOTAL
				NO.	SHEETS
<p><i>Ellis K. Hirst</i> REGISTERED CIVIL ENGINEER</p> <p>July 1, 2002 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>Caltrans now has a web site! To get to the web site, go to http://www.dot.ca.gov</p>					
<p>REGISTERED PROFESSIONAL ENGINEER No. C17926 Exp. 6-30-05 STATE OF CALIFORNIA</p>					



DOUBLE THRIE BEAM BARRIER
SAW TOOTH INSTALLATION
(Steel post and wood blocks only)
See Note 10

NOTES:

- For details of the cross section of the thrie beam rail element and details for wood post with wood block installations, see Standard Plan A78A.
- For details of standard hardware, posts and blocks used to construct thrie beam barrier, see Standard Plan A78C.
- Thrie beam barrier post spacing to be 1905 mm (6'-3") center to center, except as otherwise noted.
- Top of barrier rail to be 810 mm (32") above ground line or shoulder surfacing under the rail element.
- For barrier end treatments and barrier connections, see Standard Plans A78E, A78EA, A78F and A78G.
- For connection to Concrete Barrier (Type 60), see Standard Plan A78I.
- Attach rail element to wood block and steel post with 2 bolts on approaching traffic side of block and post web.
- Where standard embedment of barrier post is restricted by underground concrete facilities such as footing of walls, columns, etc., use post footing details on Standard Plan A77F.
- For details of thrie beam barrier on bridge and thrie beam barrier at fixed object, see Standard Plan A78D.
- Saw tooth installation to be used where offset roadway grades are encountered and height of rail element for each roadway cannot be obtained as shown in Section A-A.
- Direction of traffic indicated by \rightarrow
- Notched face of wood block faces steel post.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
THRIE BEAM BARRIER
TYPICAL STEEL POST
WITH WOOD BLOCK

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

A78B